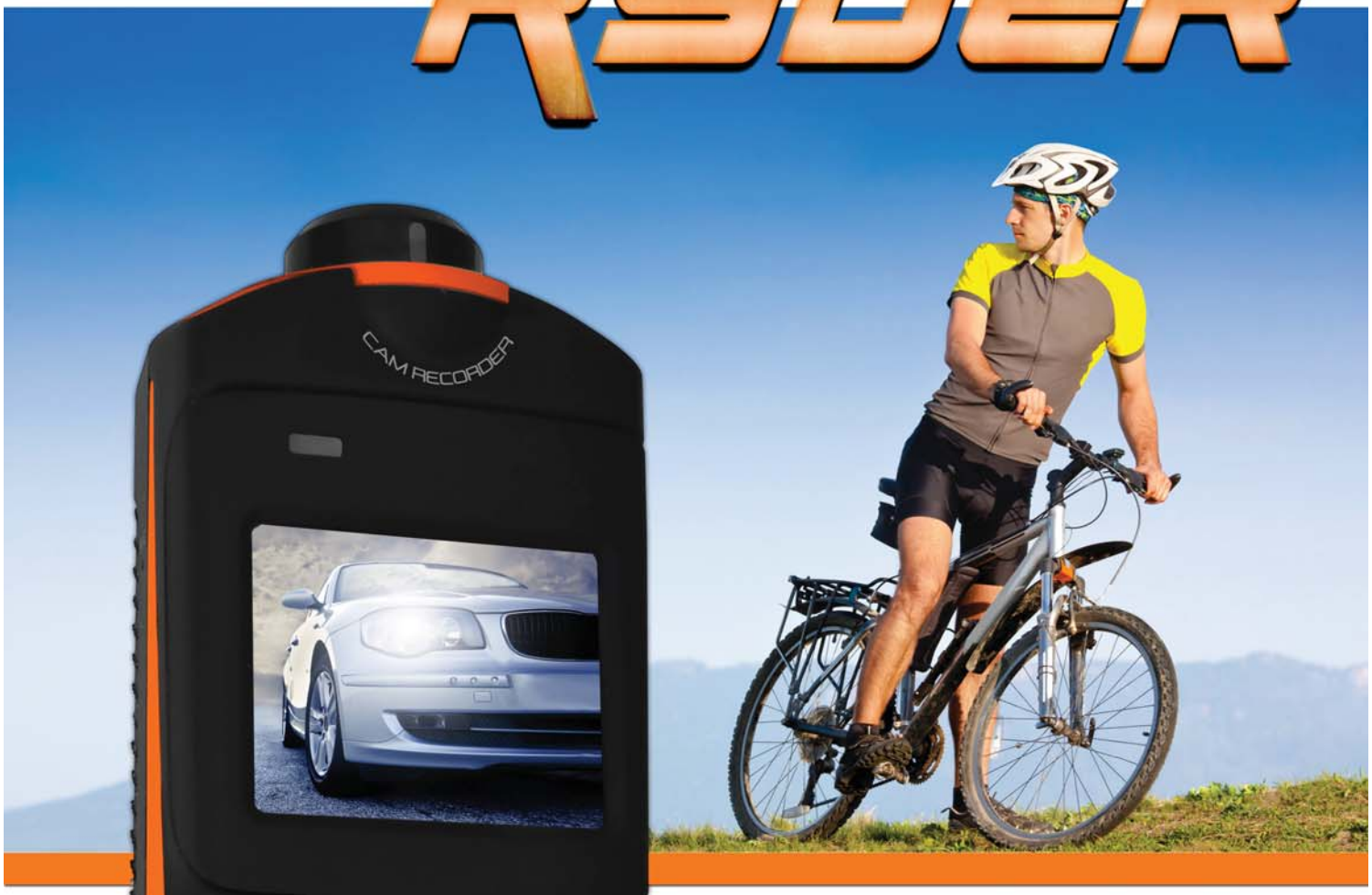
Gear Pro

RYDER



GDV785 - Gear Pro Ryder
GDV786 - Gear Pro Ryder Plus

RYDER

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Precautions & Safety

Please carefully and fully follow the guidelines found in this manual before you use the camera.

Refer to manual instructions and operate the camera correctly. Illegal operation may cause damage to camera internal components and non-optimal performance.

Do not drop or subject to camera to excessive forces, as it may damage the internal components.

For your safety, please keep the camera away from the children and animals, in order to avoid accidental damage.

Do not place the camera in a damp, dusty or debris filled locations for extended periods of time. This may cause a fire or electrical shock.

Do not leave the camera in places exposed to extremely high temperatures, such as under direct sunlight for extended periods of time. This may affect the camera housing and internal components. We recommend camera operation in temperatures between 32 to 104 Degrees Fahrenheit.

Turn off the camera before removing or adding the memory card, in case of the damage of card or storage data.

The camera is matched with a waterproof case. Please use it when the camera is exposed to water or rain. We will take no responsibilities for the damage of camera or leakage because of it.

The camera may feel warm or even hot to the touch. High temperatures are normal after using digital cameras for a long time.

Do not touch the lens while using the camera, so as not to influence the photography effect.

Please use an air blower (special lens blowing equipment) to clean lens or use special lens-cleaning cloth to clean fingerprint or dust on the surface.

Accessories	
A	Adhesive Pads
B	AC Charger
C	Goggle Belt
D	Curved Surface Mount
E	Flat Base Mount
F	Handlebar Mount
G	HDMI Cable
H	Velcro Strap
I	Remote Control
J	USB Cable
K	Waterproof Case
L	*Car Charger
M	*GPS Software
N	*GPS Antenna
O	*Suction Cup Mount

Note: *Accessories Marked with *symbol are only available with the Gear Pro Plus (GDV786) GPS Models.*

Accessories included with the GDV785 - Gear Pro Ryder

Waterproof Case, Helmet/Goggle Belt, 3M Adhesive Pads, USB and HDMI Cables, AC Wall Charger, Velcro Strap, Handlebar/Pole Mounting Bracket, Flat Surface Mount, Curved Surface Mount and Remote Control

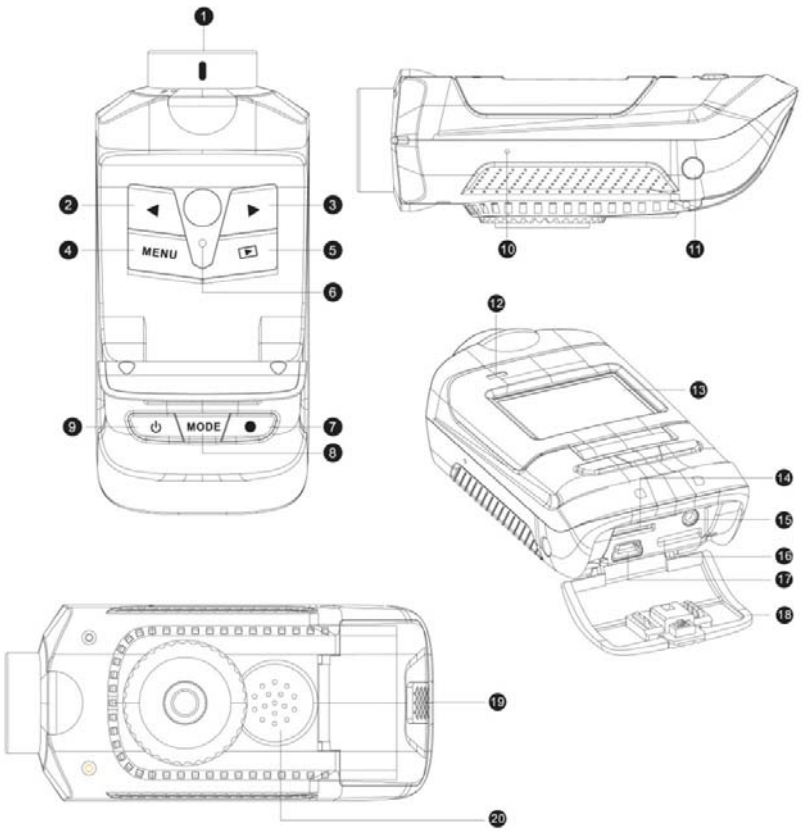
Accessories included with the GDV786 - Gear Pro Ryder Plus with GPS

Waterproof Case, Helmet/Goggle Belt, 3M Adhesive Pads, USB and HDMI Cables, AC Wall Charger, Velcro Strap, Handlebar/Pole Mounting Bracket, Flat Surface Mount, Curved Surface Mount, Suction Cup Mount, Car Charger, GPS Antenna and IR Remote Control

Interface Layout	
1	Loop Recording
2	Capture Resolution
3	*GPS Signal icon
4	Remaining Record Time
5	Battery icon
6	Date Stamp
7	Time Stamp

LCD Display Interface Layout

1. Loop recording icon (displayed under video time mode, and not displayed under normal recording mode)
2. Resolution icon (1080P/720P/640)
3. GPS signal icon (green icon means good signal, red icon means no signal)
4. Remaining record time (means the estimated time left on the storage card for recording, during recording it displays the recording time in progress)
5. Battery icon (charging indication; the power grid varies according battery power, turning red means low power)
6. Displays year, month and date when 'Date Stamp' function is set on.
7. (No date stamp displayed when set off)



Camera Layout	
1	Lens
2	Left Key
3	Right Key
4	Menu
5	Playback
6	Reset
7	Record
8	Mode
9	Power
10	Microphone
11	Infrared Receiver
12	Indicator Light
13	LCD Display
14	SD Card Slot
15	GPS Antenna Port
16	HDMI Port
17	USB Port
18	Back Cover
19	Cover Lock
20	Built-in Speaker

Mounting

The camera can be mounted in many ways. Please follow the methods of mounting as suggested below:

Mount the flat base pedestal

Mount the flat base pedestal onto a surfboard or similar surface

Put the camera into the waterproof case and lock well, install the camera bracket into flat base pedestal, stick flat base pedestal with 3M pads and then attach to surfboard directly (Shown below).

Flat Base Mounting

Install the camera bracket into flat base pedestal, stick flat base pedestal with 3M pads and then attach to the surface of sliding plate or sledge, etc. (Shown below).

Side-Helmet Mounting

Mount goggle belt to curve helmet pedestal, then tie the belt around the helmet, adjust curve helmet pedestal to the right position, then fix it firmly onto the helmet using 3M sponge rubber pads, install the camera bracket into curve helmet pedestal (Shown below).

Top-Helmet Mounting

Thread the nylon velcro strap into curve helmet pedestal, then thread the nylon velcro strap into helmet and fasten it. Make sure it is fixed firmly (Shown below).

Handlebar Mounting

Completely loosen the screws on the handlebar mount, apply the protective rubber pads around the handlebar then apply the handlebar mount over the pads. Tighten the screws onto the handlebar grip. Works for standard bicycle diameters.

SD Memory Card Access

1) Open the camera back cover
2) Insert the card according to the right direction
3) Close the back cover

Removing the SD Card

1) Turn off the camera power and open the back cover.
2) Press the end of the storage card slightly, it will eject automatically.
3) Close the back cover

Note: Carefully insert the SD card in the proper direction. Reversed insertion may cause damage to the camera and the SD card.

Battery Charging

Connect the USB port of charger with the USB port of camera, and then plug in the power. During charging, the red indicator is flicking, when fully charged, the indicator stays on all the time. **Note:** In order to improve the charging efficiency, please charge the camera while powered off. Please make sure the AC power is present when the charger is plugged in.

Button Functions

Power key (⏻) : To turn on/off the camera; to clear screen character

Mode key (MODE): to switch to capture mode and video mode; to delete files under playback mode

REC key (●): take photos and videos, and stop taking videos

Menu key (MENU): to enter into and exit menu setting, and quit playback under playback mode

Playback key (▶): to browse photos and videos, to confirm settings under setting mode.

Left key (◀): to choose the last menu or file, zoom out, and reduce voice volume under playback mode.

Right key (▶): to choose the next menu or file, to zoom in, and increase sound volume under playback mode.

Reset key : to reset the camera system.

Reset Key

In case the camera is dead or not able to work properly, press in the hole of reset key, camera return to normal shut off status, to continue operation, press power key again.

Turn the camera ON / OFF

Turn ON

Press the " ⏻ " key, with one beeping sound camera starts up. On the top of LCD screen it displays the resolution icon, remaining recording time of card separately; at the bottom of LCD screen it displays the battery icon, date and time.

(Remark: when video time mode is set, camera will automatically record after power up)

Turn OFF

Press and hold the " ⏻ " key for 3 seconds, it will turn off after one beeping sound.

Video Mode

Normal Recording

When the camera is on, set the menu of "video time" to "Close" (refer to "Video Mode" setting), press the " ● " key to take video, the recorded time and recording icon are displayed on the top of LCD screen, press " ● " key again to stop recording and the camera automatically saves the video file, the remaining recording time is displayed also displayed.

Note: Camera gives out different sounds between starting recording and stopping recording.

Loop recording

Set record overwrite time in the menu of **"video time"** to 2 or 5 minutes (refer to "Video Mode" settings), press "●"key to start recording, when it records to 2 or 5 minutes (according to the time you set), the DVR will stop recording automatically and save the video footage and then continue recording another video file; when the SD memory card is full, DVR will delete the first video footage recorded, automatically, and then continue to record again.

Press " ● " key once to stop recording and save the video, the remaining time is displayed on the top of LCD screen.

The loop recording icon is displayed on the left top of the screen.

Capture (Image) Mode

Press " **MODE** " key to switch between image capture and video recording modes.

Aim the Gear Pro then press the " ● " to either take a picture or to record a video.

Automatic Photo: Under capture mode settings, set the self capture time in the menu **"Automatic Photo"** selection (refer to Capture Mode setting), camera will keep taking time-lapse photo automatically as the time you set. Press "MODE" key to quit auto capture and switch to video mode.

Zooming

Under recording or capture mode, press and hold ▷ / ◁ keys to zoom in/out.

Clear Screen ***(Removing all icons and characters on the LCD display)***

Under standby, video, capture or playback mode, press ⏻ key once to clear all characters on screen. Press ⏻ key once again, the characters will recover.

Playback Modes

Press " ▶ " key to enter into playback mode, to preview images and videos.

"Capture Play/Video Play/G-sensor Video/Cycle Video/Motion Video" choices will be available on the screen.

Navigate to your desired selection with the ◁/▷ keys. Press" ▶ " key to play/view your media.

During picture browsing, press ◁/▷ key to browse last/next image.

During video playback, press " ▶ " key to pause, press " ▶ " once again to continue. ◁/▷ adjusts volume.

Press the "**MENU**" key to return to the previous menu / media selection.

*Note: ****'Cycle Video****' files will only be available and created when you connect the GPS antenna to the Gear Pro.*

Playback Modes & Media	
Capture Play	Displays images
Video Play	Displays videos recorded (Records video in the selected video resolution,)
G-Sensor Video	Displays G-Sensor videos (*will only be available if activated in the G-Sensor settings are activated,)
Cycle Video	Displays recorded videos with GPS data (*will only be available when recording with the GPS antenna connected, for later use with the GPS Gear Pro software when you connect to computer,)
Motion Video	Displays recorded motion videos (*will only be available if activated in the **'Video Mode - Motion Detection'** settings are activated, and you have successfully record motion video,)

G-Sensor Video Recording

Navigate to '**Setup Mode - G Sensor**' settings to activate G-Sensor recording ability. Choose between 4G & 8G sensitivity settings. Once activated and while recording a video, the LCD display shines a 'green sensor icon' when excessive forces or impacts are sensed. Upon initial excessive force impact, a G Sensor video will record for 30 seconds after the impact (the green icon will also be displayed indicating the recording of the G Sensor video). The G Sensor video can be found in the **'G-Sensor Video'** Mode. After the 30 seconds, the G Sensor video file will automatically save and the Gear Pro will continue to record video, that can be found under '**Video Play**' Mode.

Cycle Video Recording

Connect the included GPS antenna to the Gear Pro's GPS port located next to the HDMI port, under the protective flap cover. The GPS antenna records your geographic data during the time of recording which can then be used with the included software. Upon connecting the device to your computer, the GPS software provides a 'Google Map' of your destination at the time you were recording video. These videos with GPS data can be found in the **'Cycle Video'** Mode. Install the software, connect the antenna then transfer the data to your computer.

Motion Video Recording

Navigate to **'Motion Detection'** settings to activate motion detection recording ability. Motion Detection settings allow you to choose from **close** (off), **30 seconds, 1 minute, and 3 minutes**. Choose your desired time interval and then record a video. When activated, the motion detection recording function allows you to record video for your selected amount of time. The Gear Pro will sense movement and automatically record in 30 seconds, 1 minute or 3 minute videos -- which will then cycle and continue to record videos until you stop recording or deactivate the **Motion Detection** feature.

Delete Files

Press " ▶ " to enter playback mode. Choices available **"Capture Play/Video Play/G-sensor Video/Cycle Video".**

Choose your desired selection from the 'Play Mode' screen and press " ▶ " on your desired selection. This opens media files available in that category.

Navigate to your desired selection with the ◁/▷ keys. Then press " **MODE** " on the media file you wish to delete.

The camera will prompt you to 'Delete' (deletes the single, highlighted file) or 'Delete All' (deleted all media in the selected mode).

Navigate to your selection with ◁/▷ keys, then press " ▶ " to confirm deletion, or press the " **MENU** " key to return.

Note: When G-sensor is turned on in the settings menu ("4G / 8G"), in case the camera senses an impact, it will save crash video footage, it cannot be deleted from the camera directly. Only through formatting card or from the PC can the crash footage be deleted.

Setup Mode (Camera Settings)

Press " **MENU** " to enter into setting mode. You can then access:

Capture Mode (Image Settings), **Video Mode** (Video Settings), or **Setup Mode** (Device Settings).

Navigate to your selection with ◁/▷ keys, then press " ▶ " to confirm your choice.

Capture Mode:

SIZE: 16M (4618*3464), 5M (2592*1944)

Quality: High/Middle/Low

EV: 1/2/0/-1/-2

White Balance: Auto/Daylight/Cloudy/Tungsten/Fluorescent/

Automatic Photos Close (OFF) /3secs/5secs/10secs/30secs/1min

Video mode

SIZE: 1080P, 720P, VGA (with variable FPS selection)

EV: 1/2/0/-1/-2

White Balance: Auto/Daylight/Cloudy/Tungsten/Fluorescent/

MIC Volume: OFF/ Level One/Level Two/Level Three/ Level Four

Video Time (Loop Recording): Close/2 mins/5 mins

Anti-Shaking: Open/Close

TV Playback

Turn the camera on, connect the HDMI port of camera to TV via the HDMI cable, choose the HDMI input source mode on your compatible TV. The LCD screen of camera will turn off automatically, all operation and functions can be shown on TV.

PC Playback - Connection

Turn the camera on, then connect to your computer via the included USB connection cable. If a compatible SD memory card is inserted, the Gear Pro will appear as a removable disk on your computer. Then you can browse your computer to find folder including: GSENSOR folder, PHOTO folder and VIDEO folder. Choose the folder and browse corresponding files.

Remote Control Instruction

Under **'Video Mode'**, press " ■ "key to choose resolution, then "● " to start recording, and press "●" again to stop.
Under **'Capture Mode'**, press " ■ "key to choose image pixels, press "● " once to take a photo.
Press " ■ "key or " ● "key per time, the red indicator on the remote control flicks.

The warranty covers defects in workmanship and materials. The warranty does not apply to units, which have been damaged or abused intentionally or unintentionally. Purchase from individuals or unauthorized internet sites voids the warranty. The warranty does not apply to units where the rear cap was incorrectly installed or closed, cosmetic damage, modification of or to any part of the product.
Tampering with or altering the unit will void the warranty. Any unauthorized service will void the warranty. Original sales receipt must be produced for any warranty service and a return authorization must be obtained from our customer service points.
The warranty does not cover any damage that may occur during a sport activity. It is the user's responsibility to secure the camera securely to any sport equipment.

Temperature Warning:

The camera has become too hot and needs to cool down after 2 hours of repeated use. (Continuously recording). Simply let it sit and cool before attempting to use it again. Your camera will not allow itself to overheat, but will shut down if overheating or higher than usual temperatures are reached.

Note:

*Due to the nature of this action camera, it is preferred for taking still images. Higher image quality and clarity can be achieved through holding the camera steadily or placing the camera in a fixed location. It is the user's responsibility to mount the camera securely to any sport equipment. Any installation, mounting or application of screws or the mounts must be retightened from time to time for prevention of unwanted effects and performance. The warranty does not cover any damage that may occur during a malfunction during any sport activity. Please use the Gear Pro safely and enjoy!

*Please read through this user manual before using the product and keep the manual for future use.
*Please operate the camera only after attaining a full understanding of the manual.
*The manufacturer may alter the product appearance and specification without further notice.

Model Features & Technical Specifications:

Models: GDV785 - Gear Pro Ryder

Models GDV786 - Gear Pro Ryder Plus with GPS

- Records HD Video and Snaps Hi-Res Pictures
- 1.5'' Fold-Out LCD Display Screen
- Instantly Playback Images & Video
- Anti Shaking Function for Image Stabilization
- 360° Degree Adjustable and Rotating Camera Lens for Horizontal, Vertical, Angled Mounting
- Wirelessly Snap Pics & Record Video via Remote Control
- HDMI Mini Connector Port (Connects to HDTVs)
- Take Pictures While Recording Video
- Waterproof Case Safe in Depths up to 99' Feet
- Easy Touch Button Controls
- Easily Save and Transfer Files to PC
- Built-in Rechargeable Battery
- Up to 2 Hour Battery Life
- Micro SD Card Slot Reader
- Preview Media Files Instantly on the Display Screen
- Charges via USB Port or Wall Charger (Included)
- Built-in Speaker & Microphone for Recording Audio
- Invertible Screen Display for Upside-Down Mounting/Recording
- Up to 4X Digital Zoom Function
- Works for Windows & Mac
- Exposure Value, White Balance, Light Frequency Settings Adjustments
- LCD Displays Remaining Pictures & Record Time Available
- Includes IR Remote: Wirelessly Snap Pics & Record Video
- Universal Screw-Threading & Multi-Mount Options
- Built-in G-Sensor Activates Video Recording Upon Accident/Collision
- Multi-Language Support: English, Chinese (Traditional & Simplified), French, German, Russian, Spanish, Italian, Czech, Portuguese

Technical Specs:

Image Sensor: 5 CMOS Mega

Wide Angle Lens: F=2.4 (f=3.2mm)

160° (1080p) - 170° (720p & VGA)

Battery: Lithium 1200mAh Li-Polymer

Infrared (IR) Remote Control Operation

Supports Micro SD Cards up to 32GB

Light Frequency Options: 50Hz, 60Hz

G Sensor Sensitivity Selectable: 4G or 8G

Date Stamp: On/Off

Camera Weight: 3.35 oz.

Camera Dimensions (L x W x H): 3.85'' x 1.77'' x 1.37''

Record Video:

Video Capture in 1080p, 720p or VGA

1080p (1920 x 1080) @ 30FPS

720p (1280 x 720) @ 60FPS

VGA (640 x 480) @ 120FPS

Motion Detection Recording Ability

Anti Shaking Image Stabilization Assistance

Switchable Video Recording Modes: Normal and Loop

Loop Recording Length: 2 or 5 minutes

Video File Format: .mov

Snap Pictures:

Capture Images in 5 or 16 Mega Pixels

16MP (Pixels: 4618 x 3464)

5MP (Pixels: 2592 x 1944)

High, Normal, Low Quality Selectable

Time Lapse (Automatic Photo) Timer Function

Auto Photo Taking: Choose Between 3, 5, 10, 30, 60 seconds

Image File Format: .jpg

Capture Images in 5 or 16 Mega Pixels

16MP (Pixels: 4618 x 3464)

5MP (Pixels: 2592 x 1944)

High, Normal, Low Quality Selectable